CHAPTER 1 : SPECIFICATION

CONTENTS

1. Specifications

1-1) SC5500 Specifications ——— 1-1

1-2) Port Pin Configuration ——— 1-2

2. Comparison Chart ——— 1-4

3. Compatible Risograph Model ——— 1-5

1. Specifications

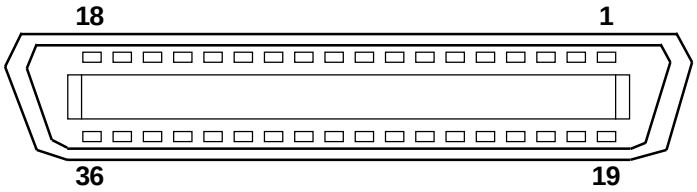
1-1) SC5500 Specifications

Item	
Host Compatibility	Macintosh compatible, IBM compatible
Interface Ports	Parallel, Mac Serial(RS422), Ethernet 10Base-T(RJ45)
Protocol	IEEE1284,Centronics RS422(Serial/Mac QuickDraw, LocalTalk/PS2 clone) Network capability EtherTalk,TCP/IP Network/Client OS: WindowsNT4.0 and System7.1/7.5
Autoswitching	Printing Port and Protocol
Printer Languages	PostScript 2 clone(Option), HP PCL5e
Printer Emulation	PostScript-LaserWriter(Option), PCL-HP LaserJet 4M+
Resident Fonts	45 Agfa Scalable & Bitstream, 1 Bitmap/PCL5e Monotype type1 standard35/PS(Option)
Interface Unit Type	External box
Processor	Intel i960KB RISC Processor
RAM	4MB standard (20MBmax.)
Dimensions (W x D x H)	200W x 233D x 80H (mm) [Horizontaly set] 7.87W x 9.17D x 3.15H (inch) [Horizontaly set]
Power Requirements	100 to 240VAC, 50/60Hz
Power Consumption	20W
Operation Temperature	41F TO 104F (5C to 40C)
Operation Humidity	40% to 70% (No dew condensation)
Net Weight	Approx. 4.4lb (2.0kg)
Resolution	300 x 300, 300 x 400, 400 x 400 and 600 x 600 dpi/ (automatically detected
Control Button	START, STOP and FUNCTION(3 buttons)
Indicator (LED)	READY/DATA, PAGE STANDBY and ERROR(3 LEDs)
Rear Panel Connectors	Host(PARALLEL), Host(SERIAL), Printer(RISOGRAPH)
Margin Assignment	Top/Bottom and Left/Right : 5mm(0.197 inch) or greater[Depends on Risograph model]
Paper Size Range	Max. 297 x 432mm or 11.693 x 17.008 inch Min. 55 x 55mm or 2.165 x 2.165 inch (Paper size which is available for printing depends on Risograph model)
Software (Standard) **Printer Driver**	PCL driver for Windows 3.1, Windows 95 and Windows NT4.0 Mac QuickDraw
Utility/Status Monitor	DOS(Ver.3.3 or up)
Status Monitor only	Windows 3.1, Windows 95, Mac
Screen Font	PCL screen font for Windows
Software (Option) **Printer Driver**	PS2 driver for Windows 3.1, Windows 95 and Windows NT4.0 Mac PPD file
Screen Font	Not available

1-2) Port Pin Configuration

A. PARALLEL Port

- Pin configuration



- Interface signals (Centronics interface specifications)

Pin No.	Signal	Source	Function
1	DATASTROBE/	H	Data read synchronizing signal. When this signal is LOW, the SC5500 takes in data.
2	DATA1	Bi-Di	Represents data bit 1.
3	DATA2	Bi-Di	Represents data bit 2.
4	DATA3	Bi-Di	Represents data bit 3.
5	DATA4	Bi-Di	Represents data bit 4.
6	DATA5	Bi-Di	Represents data bit 5.
7	DATA6	Bi-Di	Represents data bit 6.
8	DATA7	Bi-Di	Represents data bit 7.
9	DATA8	Bi-Di	Represents data bit 8.
10	ACK/	P	Indicates that all data have been acknowledged when LOW.
11	BUSY	P	Indicates that the SC5500 is busy and cannot receive data when HIGH.
12	PE	P	Indicates the absence of paper in the printer when HIGH.
13	SELECT	P	Indicates whether the SC5500 is selected or not.
14	AF	H	Reserved for future expansion.
15	NC*		Undefined or reserved for future expansion.
16	GND		Signal ground
17	FG		Frame ground
18	5V	P	+5V power supplied from the SC5500 through a 4.2kOhm resistor.
19	GND		nStrobe signal ground
20	GND		Data 1 signal ground
21	GND		Data 2 signal ground
22	GND		Data 3 signal ground
23	GND		Data 4 signal ground
24	GND		Data 5 signal ground
25	GND		Data 6 signal ground
26	GND		Data 7 signal ground
27	GND		Data 8 signal ground
28	GND		nAck signal ground
29	GND		Busy signal ground
30	GND		pError signal ground
31	INPUT PRIME/	H	Restores the SC5500 into the initial status (compatibility mode) when HIGH.
32	FAULT/	P	Notifies the presence or absence of an error in the SC5500 to the external device (host).
33	NC*		Undefined or reserved for future expansion.
34	NC*		Undefined or reserved for future expansion.
35	NC*		Undefined or reserved for future expansion.
36	SELECT IN/	H	Used by the external device (host) to select the SC5500. When this signal is LOW, the SC5500 is selected.

NC* stands for no connection
“H” stands for Host and “P” means the SC5500

B. SERIAL Port

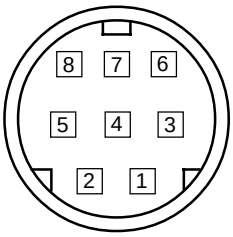
- J7 : MAC (SERIAL)

Mac printer cable system : 57.6K bps
LocalTalk cable system : 230.4K bps

- Input/Output specifications

Input : RS-422 receiver or equivalent
Output : RS-422 driver or equivalent

- Pin configuration



NOTE : Timing and other details are not published.

C. ETHERNET Port (10BaseT RJ-45)

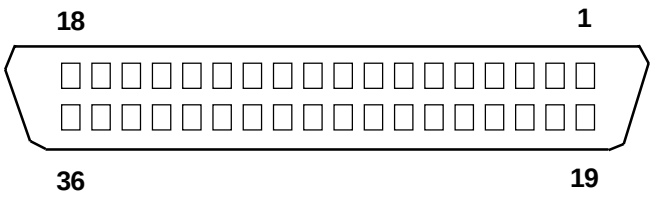
- Pin configuration

- Interface signals

Pin No.	Signal	Source
1	Transmit Data+	Output
2	Transmit Data-	Output
3	Receive Data+	Input
4	N/A	
5	N/A	
6	Receive Data-	Input
7	N/A	
8	N/A	

D. Printer (RISOGRAPH) connector

- Pin configuration



NOTE : This interface is dedicated to the RISOGRAPH printer.

2. Comparison Chart

SPECIFICATION	SC5500	SC7500	SC3000
Compatibility PC	Standard	Standard	Standard
Macintosh	Standard	Standard	Standard
Microprocessor	i960KB	AMD-K5-PR100ABQ Pentium compatible	AMD29205
Memory: Standard RAM	4MB	16MB	4MB
Max. RAM	20MB	32MB	20MB
Hard Disk Drive	No	Min.540MB	No
I/O ports:	IEEE1284 Parallel LocalTalk RS422 EtherTalk TCP/IP	IEEE1284 Parallel LocalTalk RS232 EtherTalk Phase II TCP/IP and SCSI II	IEEE1284 Parallel LocalTalk RS422
Port Autoswitching	Yes	Yes	Yes
Language Autoswitching	Yes	Yes	No
Languages: PostScript	Clone PS2 (Option)	Adobe PostScript Level 2	No
PCL	PCL 5e	PCL 5, 5e	No
Other			RisoRinc
Emulation Printers	HP LJ 4M+ LaserWriter	HP LJ III HP LJ 4V	No
Resident fonts:	45 Agfa scalable & Bitstream 1 Bitmap/PCL5e	35PS Latin(Agfa) 50PCL Latin scalable(Agfa) 7PCL Latin Bitmap(Agfa)	No
Option	35 Monotype Type1 std./PS	No	No
Functions	Print	Print & Scan	Print
PostScript Screening	Yes	Adobe Brillant	No
Computer set copy count	Standard	Standard	Standard
Computer set Risograph`s functions	Standard	Standard	Standard
Printer Resolution:300dpi	Yes	No	Yes
400dpi	Yes	Yes	Yes
600dpi	Yes	Yes	Yes
Software: Screen Fonts	PCL for Win	Yes	No
Printer Drivers	Win3.1,Win95, WinNT4.0 & Mac	Win3.1, Win95, WinNT4.0 & Mac	Win3.1, Win95 & Mac
Scan Drivers	No	Twain compatible (Win3.1,Win95 & Mac)	No
Others	Utility and/or Status monitor (Dos, Win & Mac)	Scan Utility (Dos,Win3.1, Win95) Utility Software (DOS, Win3.1, Win95 & Mac)	Paper Editor

Note-Scanning requires optional SCSI Interface Board
The above Specifications may change without notice

3. Compatible Risograph Model

SC5500 can be connect with the Risograph listed below

Risograph		Risograph Rom version		Other conditions
		Panel ROM newer than	System ROM newer than	
RG2500 RG2700 RG3500 RC4000 RC4500 RC5600 RC5600D RC5800 RC6300 RA4050 RA4200 RA4300 RA4900 RA5900	Not compatible			
GR1700 GR1750 GR2710 GR2750 GR3750	Compatible	 RP/V3.03 RP/V3.03	RL/V4.02C RL/V4.02C RL/V4.02C RM/V6.02C RM/V6.02C	>Interface Kit III or IIIS must be installed. >These EP ROMs contain Interface program version 5.xx.
GR3770		RP/V4.01	RH/V1.09	>Interface kit IIIS must be installed. >These EP ROMs contain Interface program version 5.xx.
TR series	Compatible		SS/V2.00B OP/V1.05A (Option PCB)	>Option PCB must be installed. >The EP ROM must contain Interface program version 5.xx. >The EP ROM is separately supplied as spare parts. Please order this EP ROM version when you needed. Note: TR EP Rom SS/V2.00B is switchable for two I/F version. Test mode(Memory switchs) 215 Select <1> to switch to I/F version 5.xx